

# MTH 237 : Linear Algebra

This course introduces the basic theory of linear equations and matrices, real vector spaces, bases and dimension, linear transformations and matrices, determinants, eigenvalues and eigenvectors, inner product spaces, and the diagonalization of symmetric matrices. Additional topics may include quadratic forms and the use of matrix methods to solve systems of linear differential equations.

**Credits** 3

**Theory Credit**

3

**Prerequisites**

A grade of "C" or better in MTH 126 (Calculus II)